Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claims 1-15. (canceled)

16. (currently amended) <u>A method of operation of a mobile node within [[In]]</u> a communication system supporting mobile IP, wherein [[a]] <u>the</u> mobile node is operable to connect to a network infrastructure via one or more gateway routers, [[a]] <u>the</u> method comprising the mobile node performing steps of:

determining that the mobile node [[it]] is attached to a mobile gateway router associated with a mobile network; and

maintaining a binding update list of one or more correspondent nodes that <u>have received</u> a binding update corresponding to the mobile node has been communicating with,

wherein the mobile node maintains the binding update list when the mobile node is in a home network of the mobile node.

Claims 17-18. (canceled)

- (original) The method of claim 16, wherein the mobile node comprises a mobile router.
- (original) The method of claim 16, wherein the mobile node comprises a mobile network node detached from a mobile network.

Claims 21-23. (canceled)

24. (previously presented) The method of claim 38 wherein the care of address comprises at least one of a home address of a) the mobile gateway router and b) the mobile node.

- 25. (previously presented)The method of claim 38 wherein the care of address comprises an address in a home subnet of the mobile node.
- (previously presented)The method of claim 16 wherein the mobile node comprises an IP-addressable device.
- (previously presented)The method of claim 16, further comprising sending a binding update to the one or more correspondent nodes.
- 28. (previously presented) The method of claim 27 wherein the binding update is generated in response to a tunneled packet from at least one of a) the one or more correspondent nodes, b) the mobile gateway router, and c) a home agent of the mobile node.
- (previously presented) The method of claim 16 further comprising identifying that a packet was received from the one or more correspondent nodes without traversing thea home agent.
 - 30. (currently amended) The method of claim 16, further comprising: detaching from the mobile gateway router;

attaching to a second mobile gateway router in a fixed site in the communication system; and

sending a binding update to the one or more correspondent nodes that <u>are in the binding</u> <u>list of</u> the mobile node <u>has been communicating with</u> to inform the one or more correspondent nodes of the mobile node's attachment to the fixed site.

- 31. (previously presented)The method of claim 38 wherein the binding update is sent to the one or more correspondent nodes identified in the binding update list.
- (previously presented) The method of claim 31 wherein the binding update comprises a care of address in a subnet that the mobile node is currently attached to.

- 33. (previously presented) The method of claim 31 wherein the binding update comprises a care of address of a home address of the mobile gateway router to which the mobile is attached.
 - 34. (currently amended) The method of claim 16, further comprising: detaching from the mobile gateway router;

attaching to a second mobile gateway router in a second mobile network in the communication system; and

sending a binding update to the one or more correspondent nodes that <u>are in the binding</u>
<u>list of the mobile node the mobile node has been communicating with</u> to inform the one or more
correspondent nodes of the mobile node's attachment to the second mobile network.

- (previously presented) The method of claim 34 wherein the binding update is sent to the one or more correspondent nodes identified in the binding update list.
- 36. (previously presented) The method of claim 35 wherein the binding update comprises a care of address in a subnet that the mobile node is currently attached to.
- 37. (previously presented) The method of claim 35 wherein the binding update comprises a care of address of a home address of the mobile gateway router to which the mobile is attached.
 - 38. (currently amended) The method of claim 16 further comprising the steps of when the mobile node has moved away from the home network:

obtaining a care of address comprising the home address of the mobile gateway router; and

sending the care-of address to a home agent of the mobile node, ; and

 (previously presented) The method of claim 38, further comprising sending a binding update to the one or more correspondent nodes.

- 40. (previously presented) The method of claim 39 wherein the binding update is generated in response to a tunneled packet from at least one of a) the one or more correspondent nodes, b) the mobile gateway router, and c) a home agent of the mobile node.
- 41. (new) A method of operation of a mobile node within a communication system supporting mobile IP, wherein the mobile node is operable to connect to a network infrastructure via one or more gateway routers, the method comprising:

detaching from a home network of the mobile node;

determining one or more correspondent nodes that have received a binding update corresponding to the mobile node, where the determination is made prior to receiving any packets from the correspondent node; and

sending a binding update to the one or more correspondent nodes to inform the one or more correspondent nodes of a mobile new care-of address.

- 42. (new) The method of claim 41, wherein the step of determining one or more correspondent nodes comprises using a binding list which is maintained by the mobile node when the mobile node is in the home network.
- 43. (new) The method of claim 42, wherein the binding list comprises one or more correspondent nodes that have received a binding update mapping an address corresponding to the mobile node to a care of address.
- 44. (new) The method of claim 43, where in the care of address comprises an address corresponding to the mobile gateway router.